

**West Texas A&M University**  
**Advising Services**  
**Degree Checklist**  
**2026-2027**

(For assistance completing this form, contact Advising Services at 806-651-5300)

**NAME:** \_\_\_\_\_ **WT ID:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**Civil Engineering—Option I, (see ⚡ note below)**  
**General Civil Engineering**  
**College of Engineering**  
**ECS Building, Room 119 (806) 651-5257**

**Bachelor of Science Degree**  
**BS.CIVIL.ENGR (130)**  
**BS.PRE.ENG.CIVIL (128)**

CORE CURRICULUM COURSES: 42 HOURS		HRS
<b>Communication (Core 10)</b>		
ENGL 1301 Intro. To Academic Writing & Argumentation OR ENGL 1311 Writing About Ideas	3	
COMM 1315, 1318, or 1321	3	
<b>Mathematics (Core 20)</b>		
See University Core Requirements below	(3)	
<b>Life and Physical Sciences (Core 30)</b>		
See University Core Requirements below	(6)	
<b>Language, Philosophy and Culture (Core 40)</b>		
ANTH 2351, ENGL 2321*, 2326*, 2331*, 2341*, 2343*; HIST 2311, 2323, 2372; MCOM 1307; PHIL 1301, 2374; SPAN 2311*, 2312*/**, 2313*, 2315*, or 2371	3	Choose 1
<b>Creative Arts (Core 50)</b>		
ARTS 1301, 1303, 1304; DANC 2303; MUSI 1306, 1307 (for music majors), 1310; or THRE 1310	3	Choose 1
<b>American History (Core 60)</b>		
HIST 1301, 1302, 2381, 2382, 2301	6	Choose 2
<b>Government/Political Science (Core 70)</b>		
POSC 2305 and 2306	6	
<b>Social and Behavioral Sciences (Core 80)</b>		
AGBE 2317*; COMM 2377; CRIJ 1301; ECON 2301, 2302; GEOG 1302; PSYC 2301; SOCI 1301	3	Choose 1
<b>Component Area Option (Core 90)</b>		
See University Core Requirements below	(6)	
<b>CIVIL ENGINEERING—OPTION I GENERAL CIVIL ENGINEERING MAJOR REQUIREMENTS: 99-103 HOURS</b>		
<ul style="list-style-type: none"> <li>• A grade of "C" or better must be earned in all courses required for major.</li> <li>• A grade of "C" or better is mandatory for all prerequisites listed for ECMS courses required for Civil Engineering majors.</li> </ul>		
<b>UNIVERSITY CORE REQUIREMENTS: 15 HOURS ⚡</b>		
<b>CORE 20</b> MATH 2413*[3] Calculus I	PCE	3
<b>CORE 30</b> CHEM 1411*, 1411L Chemistry I CHEM 1412*, 1412L Chemistry II	PCE PCE	6
<b>CORE 90</b> ENGL 1302* Academic Writing and Research OR ENGL 2311* Intro. to Professional and Technical Comm.		3
<b>CORE 90</b> MATH 2413[1] CHEM 1411L[1], CHEM 1412L[1]	PCE	3
<b>CIVIL ENGINEERING REQUIREMENTS: 60-64 HOURS</b>		
ENGR 1171* Engineering Ethics		1
ENGR 1301*, 1301L Fundamentals of Engineering	PCE	3
ENGR 1304, 1304L Engineering Graphics	PCE	3
ENGR 2301* Engineering Statics	PCE	3
ENGR 2302* Engineering Dynamics	PCE	3
ENGR 3202* Fundamentals of Engineering Economics		2
CENG/EVEG 2331*, 2331L Environmental Engineering		3
CENG 2361*, 2361L Surveying		3
CENG/EVEG 3304*, 3304L Fluid Mechanics for Civil and Environmental Engineers		3

CENG 3321*, 3321L Civil Construction Materials	3	
CENG 3341*, 3341L Geotechnical Engineering	3	
CENG/EVEG 3411*, 3411L Water Resources Engineering	4	
CS 1315* Programming Fundamentals OR CS 1337, 1337L Programming Principles I	3	
<b>MATH 2414* Calculus II</b>	PCE	4
MATH 3340* Calculus III		3
MATH 3342* Differential Equations I		3
PHYS 2425*, 2425L Calculus Physics I		4
One elective in ENGR, CENG, EENG, EVEG or MENG		3
<b>Take two natural science electives from:</b>		
PHYS 2426*; BIOL 1406, 1407*, 1411, 1413, 2420* or 2572*, 4425, 4510; GEOL 1403, 1404, 3312*, 3350*, 3411*, 3471*, 3475*	6-10	
<b>OPTION I—GENERAL CIVIL ENGINEERING REQUIREMENTS: 24 HOURS</b>		
ENGR 2332* Mechanics of Materials I	3	
CENG 3351* Structural Analysis I	3	
CENG 3362* Transportation Engineering	3	
CENG 4380*, 4380L Civil Engineering Design	3	
CENG Structural Design Elective	3	
CENG Design Elective	3	
CENG General Elective	3	
<b>Take one upper-level MATH/PHYS elective selected from:</b>		
MATH 3311* Linear Algebra MATH 4340* Complex Variables I MATH 4341* Advanced Calculus MATH 4361* Statistics for the Sciences MATH 4362* Introduction to Numerical Analysis PHYS 3310* Modern Physics I PHYS 4310* Modern Physics II PHYS 4330* Optics PHYS 4340* Mathematical Methods PHYS 4397* Advanced Physics Elective III	3	
<b>MINIMUM HOURS REQUIRED TO COMPLETE DEGREE</b>		<b>126-128</b>

⚡ **Civil Engineering Program admission requirements (PCE):** overall GPA of at least 2.25; completion of the pre-civil engineering sequence with a GPA of at least 2.75; and successful completion of entrance interview with a department adviser.

The pre-engineering sequence for the Civil Engineering Program includes required math prerequisites, if not completed during high school or by ACT/SAT scores (MATH 1314 or 1324 and MATH 1316 or 2412), and also MATH 2413, 2414, CHEM 1411, 1412, ENGR 1301, 1304, 2301, and 2302.

\* Indicates prerequisites—see catalog for more information.

\*\* Or an equivalent course (second year, second semester) in a foreign language.

**NOTE: This is NOT a degree plan. All undergraduate students must request an official degree plan from their academic dean's office by the time they have completed 30 credit hours.**

**WTAMU ADVISING SERVICES – 2026-2027 Curriculum Guide**

**Major: Civil Engineering—Option I,  
General Civil Engineering, B.S.**

**BS.CIVIL.ENGR (130)  
BS.PRE.ENG.CIVIL (128)**

<b>Year 1: Fall</b>		<b>Year 1: Spring</b>	
ENGR 1301/1301L Fundamentals of Engineering (PCE <sup>2</sup> )	3	ENGR 1304/1304L Engineering Graphics (PCE <sup>2</sup> )	3
CORE 10 (Communication) – ENGL 1301 or 1311	3	MATH 2414 Calculus II (PCE <sup>2</sup> )	4
CORE 10 (Communication) – COMM 1315, 1318 or 1321	3	CORE 30 (Life & Phys. Sci.) – CHEM 1412/1412L Chemistry II (PCE <sup>2</sup> )	4
CORE 20 (Mathematics) – MATH 2413 Calculus I (PCE <sup>2</sup> )	4	CORE 40 (Lang., Phil. & Culture) <sup>1</sup>	3
CORE 30 (Life & Phys. Sci.) – CHEM 1411/1411L Chemistry I (PCE <sup>2</sup> ) (4 <sup>th</sup> hour counts toward Core 90)	4	CORE 90 (Component Area Option) – ENGL 1302, 1312 or 2311	3
<b>Total:</b>	<b>17</b>	<b>Total:</b>	<b>17</b>
<b>Year 2: Fall</b>		<b>Year 2: Spring</b>	
ENGR 2301 Engineering Statics (PCE <sup>2</sup> )	3	ENGR 1171 Engineering Ethics	1
MATH 3340 Calculus III	3	ENGR 2302 Engineering Dynamics (PCE <sup>2</sup> )	3
PHYS 2425/2425L Calculus Physics I (PCE <sup>2</sup> )	4	ENGR 2332 Mechanics of Materials I	3
CS 1315 Programming Fundamentals or CS 1337/1337L Intro. to Object-Oriented Programming	3	MATH 3342 Differential Equations I	3
CENG 2361/2361L Surveying	3	CENG 2331/2331L Intro. to Environmental Engineering	3
<b>Total:</b>	<b>16</b>	<b>Total:</b>	<b>16</b>
<b>Year 3: Fall</b>		<b>Year 3: Spring</b>	
ENGR 3202 Fundamentals of Engineering Economics	2	CENG 3341/3341L Geotechnical Engineering	3
CENG 3304/3304L Fluid Mechanics for Civil & Envir. Engineers	3	CENG 3362 Transportation Engineering	3
CENG 3321/3321L Civil Construction Materials	3	CENG 3411 Water Resources Engineering	3
CENG 3351 Structural Analysis I	3	CENG Structural Design Elective	3
Natural Science Elective (1) <sup>3</sup>	3-5	Natural Science Elective (2) <sup>3</sup>	3
<b>Total:</b>	<b>14-16</b>	<b>Total:</b>	<b>15</b>
<b>Year 4: Fall</b>		<b>Year 4: Spring</b>	
CENG Design Elective	3	CENG 4380* Civil Engineering Senior Design	3
CENG Elective	3	ENGR, EVEG, EENG or MENG Elective	3
MATH/PHYS Elective <sup>4</sup>	3	CORE 60 (American History) <sup>1</sup>	3
CORE 50 (Creative Arts) <sup>1</sup>	3	CORE 70 (Govt./Political Sci.) – POSC 2306	3
CORE 70 (Govt./Political Sci.) – POSC 2305	3	CORE 80 (Soc. & Behav. Sci.) <sup>1</sup>	3
<b>Total:</b>	<b>15</b>	<b>Total:</b>	<b>15</b>

<sup>1</sup> **CORE:** Civil Engineering majors are required to take specific courses for Core 20, Core 30, and Core 90. For all other categories, they may select from any available options (see degree checklist for options). Apart from the major-specific core requirements, there is no set order in which core courses must be taken.

<sup>2</sup> **(PCE): Civil Engineering Program admission requirements:** overall GPA of at least 2.25; completion of the pre-civil engineering sequence with a GPA of at least 2.75; and successful completion of entrance interview with a department adviser. The pre-engineering sequence for the Civil Engineering Program includes required math prerequisites, if not completed during high school or by ACT/SAT scores (MATH 1314 or 1324 and MATH 1316 or 2412), and also MATH 2413, 2414, CHEM 1411, 1412, ENGR 1301, 1304, 2301, and 2302.

<sup>3</sup> **Natural Science Electives:** Take two natural science electives from PHYS 2426, BIOL 1406, 1407, 1411, 1413, 2420, 2572, 4425, 4510, GEOL 1403, 1404, 3312, 3350, 3411, 3471, 3475.

<sup>4</sup> **MATH/PHYS Elective:** Take one upper-level elective selected from MATH 3311, 3343, 4340, 4341, 4361, 4362; PHYS 3310, 4310, 4330, 4340, 4397.

<b>Identified Marketable Skills</b>	<b>Top Three Local Employers or Industries/Professional Programs/Possible Career Opportunities</b>
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**Additional notes:**

DISCLAIMER: This curriculum guide should be used in conjunction with the corresponding degree checklist for general planning purposes only. The degree checklist (later a student's official degree plan) should be referred to as the comprehensive list of all courses required for the degree. An official degree plan is required after completing 30 hours. Students should always seek the advice of their academic adviser before scheduling classes.

## WTAMU ADVISING SERVICES – 2026-2027 Curriculum Guide

- The core curriculum must total exactly 42 hours; excess hours must be moved to the major as an elective or a major requirement and stay within the 120-hour requirement or approved total submitted to the Coordinating Board for degree requirements. Some majors specify particular courses to meet core curriculum requirements when options are available.
- At least 36 hours of advanced work (3000- or 4000-level courses) for which tuition is paid must be earned at WTAMU. A maximum of six semester hours in religion (RELI) and six semester hours in physical education (PHED) courses can count toward a baccalaureate degree.